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## JP10297913A2: ACTIVE CARBON TREATED BY CHITOSAN FOR DEODORIZING AND DECOLORING SURFACTANT AND DEODORIZING AND DECOLORIZATION OF SURFACTANT USING THE SAME

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Country: **JP Japan**

Kind:

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Abstract: **Problem to be solved:** To provide a method for deodorizing and decoloring a surfactant in which the surfactant can be deodorized and decolored with a simple apparatus according to simple operations at a low cost in a short time without elution into the surfactant by bringing the surfactant into contact with active carbon treated with chitosan used for deodorizing and decoloring of the surfactant.  
**Solution:** Chitosan used for treatment of active carbon is an almost colorless and odorless white powder available at a low cost. The chitosan is obtained by deacetylating chitin which is a natural product obtained from shells of crabs and lobsters, has no toxicity, irritation and biodegradability and is used as foods, cosmetics and detergents. The chitosan is a polyamine polymer and, therefore, acts as a flocculant to entrap, connect and flocculate the active carbon grains. The active carbon treated by the chitosan is obtained by initially dissolving the chitosan in a dilute acid, suspending the active carbon in the resultant solution, regulating the liquidity to a neutral or an alkaline one, precipitating the chitosan and integrating the chitosan with the active carbon. The molecular weight of the chitosan is  $\leq 4,000$  without limitation thereon if the chitosan may be soluble in the dilute acid. The amount of the chitosan used is 0.05-50 wt.% based on the active carbon.  
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Other Abstract Info: none